

USER'S MANUAL

DVD-2500

MULTI-SUBTITLE LANGUAGES FUNCTION
MULTI AUDIO LANGUAGES FUNCTION
MULTI-ANGLE FUNCTION
PARENTAL CONTROL



DIGITAL MOBILE DVD / Mp3 / CD-R / RW
WITH WIRELESS REMOTE CONTROL

BOSS[®]
AUDIO SYSTEMS

Congratulations on your purchase of a **BOSS** Audio Systems DVD Player. This product has been designed and built to deliver the highest quality video reproduction with CD sound. We are sure you'll enjoy watching your favorite movies with this component as a part of your multimedia. For best results please consult a professional mobile electronics installer for application advice or troubleshooting. To guarantee top performance we recommend using The **BOSS** Link installation accessories such as RCA interconnects, power cables, and speaker wire. Thank you for choosing **BOSS** Audio Systems products for your mobile entertainment system. We can't change the world, but we can make it sound and look better.

FEATURES

Compatible with PAL DVD (Video CD) and NTSC DVD (Video CD)

This player can play discs recorded in either PAL or NTSC format.

- A single LSI chip now integrates all major DVD playback circuit functions including MPEG2 decoder, video D/A converter, and audio decoders.
- L/R stereo analog audio outputs for connection to existing head unit aux inputs. Video output is composite video.
- Supplied remote handles multi-function software (multi-language audio-track/subtitle, multi-angle, multi-story, etc.), plus all basic functions.

USE THIS PRODUCT SAFELY

When Driving

Keep the volume level low enough to be aware of road and traffic conditions.

When Car Washing

Do not expose the product to water or excessive moisture. This could cause electrical shorts, fire or other damage.

When Parked

Parking in direct sunlight can produce very high temperatures inside your vehicle. Give the interior a chance to cool down before starting playback.

Use the Proper Power Supply

This product is designed to operate with a 12 volt DC, negative ground battery system (the regular system in a North American car).

Protect the Disc Mechanism

Avoid inserting any foreign objects into the slot of this player.

Failure to observe this may cause malfunction due to the precise mechanism of this unit.

Use Authorized Service Centres

Do not attempt to disassemble or adjust this precision product. Please refer to the Service Centre list included with this product for service assistance.

For Installation

The unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.

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SAFETY INFORMATION

CAUTION:

MOBILE DVD PLAYER IS A CLASS I LASER PRODUCT. HOWEVER THIS MOBILE DVD PLAYER USES A VISIBLE/INVISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE MOBILE DVD PLAYER CORRECTLY AS INSTRUCTED.

USE OF CONTROLS OR

ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND - DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.
- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.
- THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Region Management Information

Region Management Information:

This Mobile DVD Player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this Mobile DVD Player, this Mobile DVD Player cannot play this disc.

DISC NOTES

Disc formats supported by this player



DVD

12 cm disc
(Single-sided disc only)



Video CD

12 cm disc



CD

12 cm disc



MP3

12 cm disc

Discs which cannot be played with this player

- DVD-ROM
- DVD-R/DVD-RAM
- CDV
- CD-G

Handling and Cleaning

- Dirt, dust, scratches and warping disc will cause misoperation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should be kept in its case when not in use to prevent damage.
- Do not place discs in the following places:
 1. Direct sunlight
 2. Dirty, dusty and damp areas
 3. Near car heaters
 4. On the seats or dashboard

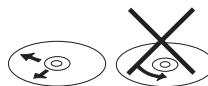
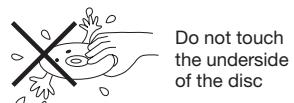
Disc Cleaning

Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistened with isopropyl (rubbing) alcohol. Never use solvents such as benzine, thinner or conventional record cleaners as they may mar the surface of the disc.

Note:

A disc may become somewhat scratched (although not enough to make it unplayable) depending on how it is handled and the conditions of exposure.

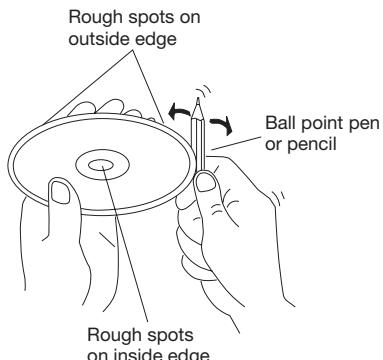
Note these scratches are not an indication of any problem with the player.



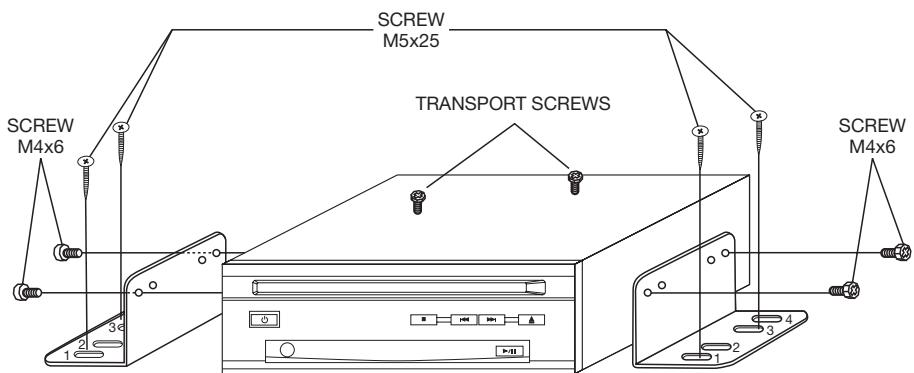
Wipe the disc from center toward the outside edge

Preparing New Discs with Rough Spots

A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough edges in advance by using a ball point pen or pencil as shown on the right. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.



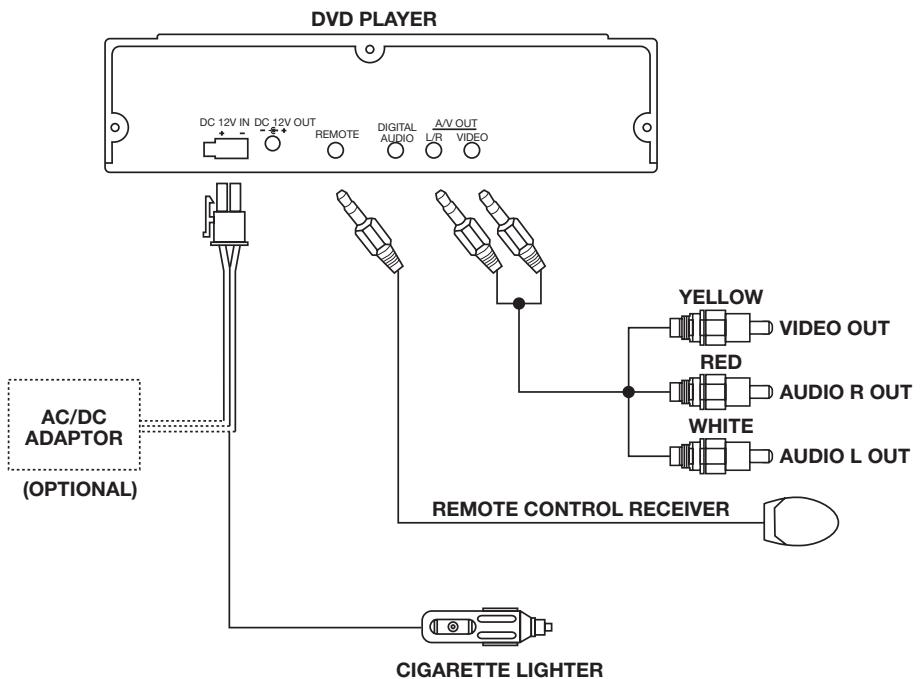
INSTALLATION



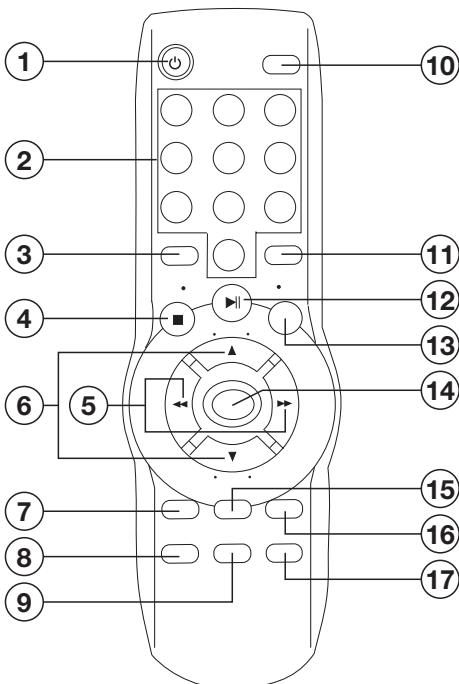
Note:

1. First remove the two transport screws. Next, attach a mounting bracket on each side of the player using the supplied screws.
2. When attaching the brackets, the mounting position of the player is determined by which pair of screw holes you choose. Select holes 1 and 3 or 2 and 4 depending on which position best suits your application.

ELECTRICAL CONNECTIONS



REMOTE CONTROL



1. ⌂ POWER Press POWER to turn the unit ON or OFF
2. 0 - 9 Numeric buttons
3. GOTO Disc search button, cooperatively used with numeric buttons
4. ■ Press to stop playback
5. << / >> Press ▶▶ to start forward rapidly & << to reverse rapidly
6. ▲ / ▼ Press ▲ to skip to the next track & press ▼ to skip back one track
In MENU mode these buttons move the cursor
7. SUBTITLE Changes the SUBTITLE language on multi-subtitle language DVD disc
8. SETUP Display the SETUP menu
9. TITLE Display the TITLE menu that is stored in DVD disc
10. DISPLAY Display statistical disc information during playback
11. REPEAT Switch the Repeat mode of DVD/VCD/CD disc
12. ▶|| Press once to pause playback. Press again to resume playback.
13. SLOW Selects forward/reverse slow motion playback
14. ENTER Confirm the Track/Chapter selected with the number key or selected with the cursor buttons on TV screen
15. AUDIO Changes the AUDIO soundtrack on multi-audio soundtrack DVD disc. Changing of the sound mode of the VCD/CD disc
16. ANGLE Changes the view angle on multi-angle DVD disc
17. MENU Display the root menu that is stored on the DVD disc
Selects between PBC ON and PBC OFF on a VCD

REMOTE CONTROL

Preparing the Remote Control

Inserting the Batteries

1. Open the battery compartment cover.
2. Insert the new batteries (two AAA size). Make sure that the positive and negative terminals of the batteries are oriented indicated.
3. Close the cover

Using the Remote Control

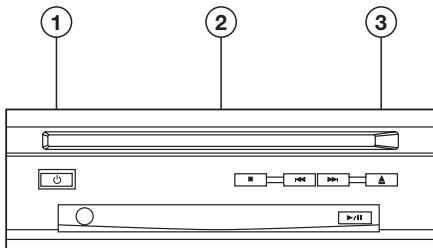
Point the remote control toward the front of the player (at the remote receiver "eye").

Operation angle: About ± 30 degree in each the direction of the front of the IR mark.

To prevent damage to the unit, be sure to follow the connection diagram (page 7).

Loading a DVD/VCD/CD Disc

1. Turn the ignition to the accessory (ACC) position.
2. Press the POWER button (1).
3. Insert the disc into the disc slot (2) with the label side of the disc facing up.
4. The player starts playback automatically.



Ejecting a Disc

Press \blacktriangle (EJECT) button (3) to eject the disc.

BASIC OPERATION

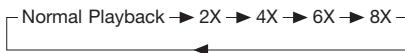
Stopping Play

- Press the ■ (stop) button to stop playback. Press the ►II (Play) button for playback.
- Press ■ (Stop) button twice, it will stop the playback and go back to initial Track/Chapter.

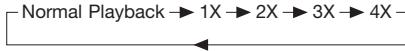
Rapid Forward/Reverse

Press ►FF & ◀REW during play. Each time the button is pressed the speed changes (depending on the disc format) as follows:

DVD:



VCD/CD:



MP3:



Skipping Track

Press SKIP ▲ / ▼ on the remote handset or ▲ / ▼ buttons on the front panel during playback. Press ▲ or ▶▶ to skip to next track, and ▼ or ▲ to back one track. Note: For some VCD 2.0 discs (PBC-playback control), ▲ / ▼ and ▲ / ▼ buttons may be unavailable.

Slow Motion Playback

Press the slow button during playback. Each time the button is pressed the changes (depending on the disc format) as follows:

DVD:



VCD:



Pause (still picture)

Pressing ►II during playback will stop play temporary.

Return to normal playback by pressing ►II again.

Repeat

Press the REPEAT button to select repeat modes as follows:

DVD:

Press the REPEAT button to select repeat mode as follow.



VCD/CD:

Press the REPEAT button to select repeat mode as follow.



1. REP-ONE mode continuously repeats the current track.
2. In REP-ALL mode all tracks on the disc are repeated.
3. When playback of the last track is completed the unit stops and the elapsed time is displayed.
In REPEAT OFF mode REP-ONE and REP-ALL are not displayed.
4. REPEAT function does not apply to VCD 2.0 (with PBC).

Reset

Reset button is placed on the front panel and must be activated with a ball point pen or thin metal object. Reset button is to be activated for the following reasons:

- Initial installation of the unit when all wiring is completed.
- All the function buttons do not operate.
- Error symbol on the display.

Remote Sensor (IR)

Point the remote handset to the remote sensor. Receive the signal from remote handset.

Tuning the player on/off

Press the (POWER) button on front of panel or press (POWER) button on remote control to turn the player on or off.

BASIC OPERATION

On-Screen Display Function

Press the DISPLAY button during playback to display the contents of the current disc on the screen.

Example:

DVD:

(1) Press DISPLAY for the first time:

TITLE 01/03 CHAPTER 002/025
00:02:25

Title Number, Total Title Number, Chapter Number, Total Chapter Number of this Title of the disc currently being played will be shown on the screen, along with the elapsed time.

(2) Press DISPLAY for the second time:

TITLE REMAIN
01:46:58

(3) Press DISPLAY for the third time:

CHAPTER ELAPSED
00:00:24

(4) Press DISPLAY for the fourth time:

CHAPTER REMAIN
00:01:39

(5) Press DISPLAY for the fifth time:

The message on the screen will be cleared.

Video CD/SVCD/CD:

(1) Press DISPLAY for the first time:

SINGLE ELAPSED 00:00:25
TRACK 01

(2) Press DISPLAY for the second time:

SINGLE REMAIN 00:03:15
TRACK 01

(3) Press DISPLAY for the third time:

TOTAL ELAPSED 00:00:25
TRACK 01

(4) Press DISPLAY for the fourth time:

TOTAL REMAIN 00:40:35
TRACK 01

(5) Press DISPLAY for the fifth time:

The message on the screen will be cleared.

MP3:

Each time DISPLAY is pressed, the message displayed on screen changes as follows:

CHAPTER ELAPSED → CHAPTER REMAIN

Multi-audio Language Function

DVD:

Press AUDIO during playback.

Each time the button is pressed, number of the audio soundtrack language changes on sequential order.

Notes:

- The language number is different according to the disc.
- Some disc only contain one language soundtrack.
- When no different language soundtrack is available  will be displayed in the top left corner of the screen.

VCD:

Press AUDIO during playback.

It is possible to switch the sound between monaural and stereo sound.

LEFT VOCAL → RIGHT VOCAL → MONO LEFT

STEREO ← MONO RIGHT ←

BASIC OPERATION

CD:

Press AUDIO during playback.
It is possible to switch the sound
between monaural and stereo sound.



MENU Function

DVD:

Press MENU button while the disc is playing and the disc menu will be displayed. You can navigate with the remote control navigation keys and select a feature with the ENTER key.

VCD:

Press MENU button while the disc is playing, you can switch between “PBC on” and “PBC off” mode.

TITLE Menu Function (For DVD only)

If the DVD has multiple titles recorded on the disc. It can select preferred title from the title menu to start playback.

1. Press TITLE during playback.
The title menu is display.
2. Press the cursor button show in TV screen, select preferred title by the cursor button and confirmed by ENTER key.

Multi-subtitle Language Function (For DVD only)

Press SUBTITLE during playback.
Each time the button is pressed, number of the subtitle language changes in sequential order.

Notes:

- The language number is different according to the disc.
- Some discs only contain one language soundtrack.
- When no different language soundtrack are recorded will be display at screen left top corner.

Multi-angle Function (For DVD only)

Press ANGLE during playback.
Each time the button is pressed, number of the angle changes in sequential order.

Notes:

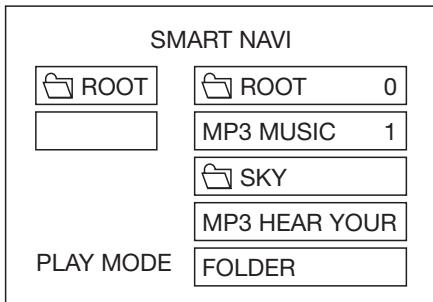
- The angle number is different according to the disc.
- The function only work for discs having scenes recorded at different angles.
- When no different angles are available will be displayed in the top left corner of the screen.

BASIC OPERATION

MP3 Disc Play

MP3 disc is playing as the format of FOLDER.

For example:



Use ▲▼◀▶ to select the item or folder, then press ENTER button.

Pressing REPEAT button repeatedly can select three kinds of repeat play mode.

REP-ONE:

Play the same song over and over again.

FOLDER REPEAT:

Play all songs in the current directory in sequence, over and over again.

FOLDER:

Play all songs in the current directory once.

When select PLAY MODE, press ▼ to change between the following mode:

SINGLE→REP-ONE→FOLDER→FOLDER REP→

DISC SCAN→DISC→DISC REP→RANDOM→

SHUFFLE ON→PROGRAM PXXX

In the playback, use ▲ or ▼ to skip an item ahead or back.

◀◀ : Rapid reverse, ▶▶ : Rapid advance

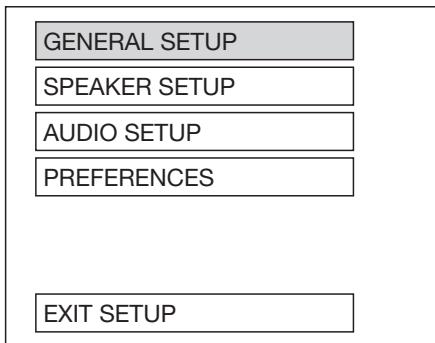
Note: The FOLDER cannot be selected during playing. It can be selected after

■ (Stop) button pressed.

SETUP

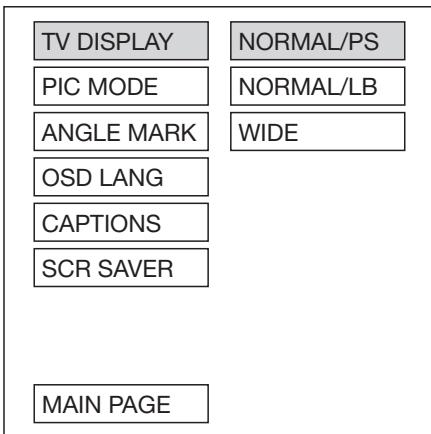
INITIAL SETUP

SETUP MENU --- MAIN PAGE



GENERAL SETUP

--- GENERAL PAGE ---



1. Press SETUP in the stop mode.
(Press the stop button twice to ensure the player is in the STOP mode).
2. The initial SETUP menu is displayed.
3. Select the preferred item by using the ▲/▼ buttons.
4. Press ENTER buttons.
 - a. GENERAL SETUP
This setup page includes all the item of TV display & audio output feature. The detail please refer to **GENERAL SETUP MENU**.
 - b. SPEAKER SETUP
This is to activate the audio output from DOLBY AC3 5.1 DOWNMIX to 2 channel mode. Please refer to **SPEAKER SETUP MENU**.
 - c. AUDIO SETUP
This setup page includes all the items for AUDIO. Please refer to **AUDIO SETUP MENU**.
 - d. PREFERENCE SETUP
This setup page includes all the configuration of support feature. The detail please refer to **PREFERENCES SETUP MENU**.

Video Material	TV Screen		
	4:3		Wide (16:9)
Normal	Pan Scan	Letter-box	
4:3			
16:9			

TV display setup

This is to select the appropriate TV aspect (4:3 or 16:9) according to the connected TV set.

Normal/PS (For 4:3 TV)

Played back in the PAN & SCAN style.
(If connected to wide-screen TV, the left and right edges are cut off.)

Normal/LB (For 4:3 TV)

Played back in letterbox style.
(If connected to wide-screen TV, black bands appear at top and bottom of the screen.)

Wide (For 16:9 TV)

Select when a wide-screen TV set is connected.

SETUP

--- GENERAL PAGE ---

TV DISPLAY	
PIC MODE	AUTO
ANGLE MARK	HI-RES
OSD LANG	N-FLICKER
CAPTIONS	
SCR SAVER	
MAIN PAGE	

--- GENERAL PAGE ---

TV DISPLAY	
PIC MODE	
ANGLE MARK	
OSD LANG	ENGLISH
CAPTIONS	
SCR SAVER	
MAIN PAGE	

PIC mode setup

Select AUTO, the player PIC mode will depend on DVD disc.

Select HI-RES format for best image resolution.

Select N-FLICKER format on format on image or picture under noise affect.

OSD LANG type setup

Select the preferred OSD language by using the ▲ / ▼ buttons.

--- GENERAL PAGE ---

TV DISPLAY	
PIC MODE	
ANGLE MARK	ON
OSD LANG	OFF
CAPTIONS	
SCR SAVER	
MAIN PAGE	

--- GENERAL PAGE ---

TV DISPLAY	
PIC MODE	
ANGLE MARK	
OSD LANG	
CAPTIONS	ON
SCR SAVER	OFF
MAIN PAGE	

ANGLE MARK display setup

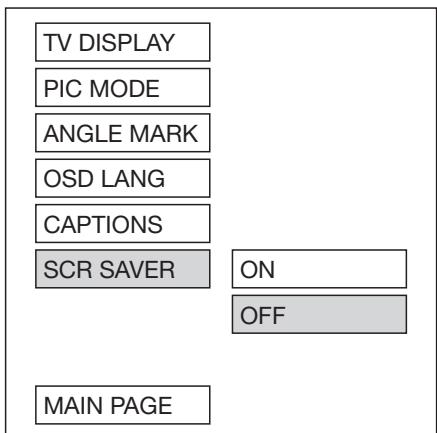
If it is set to ON, when the multi-angle DVD disc is playing, (the angle mark) will appears on the screen; if is set to OFF, the mark will not appear.

CAPTIONS setup

Activate the CAPTIONS feature by selecting ON. And release this feature by selecting OFF.

SETUP

--- GENERAL PAGE ---

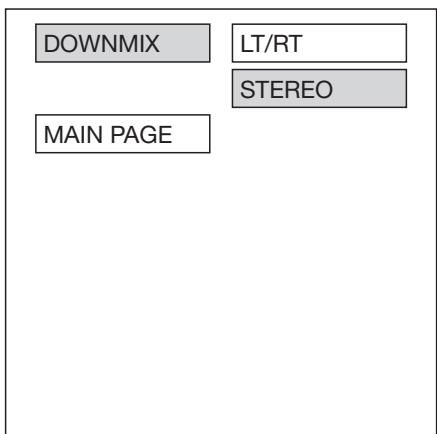


SCR SAVER setup

Select the SCR SAVER output ON/OFF.

SPEAKER SETUP

--- SPEAKER SETUP PAGE ---

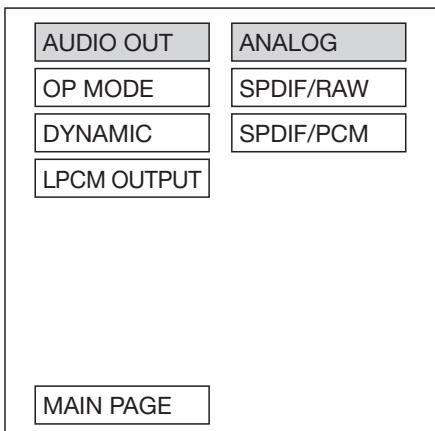


This is to activate the audio output from DOLBY AC3 5.1 DOWNMIX to 2 channel mode. Select the preferred SPEAKER connection by using the cursor buttons.

- Select the LT/RT to activate the Dolby surround compatible output.
- Select the STEREO to activate simple stereo mode.

AUDIO SETUP

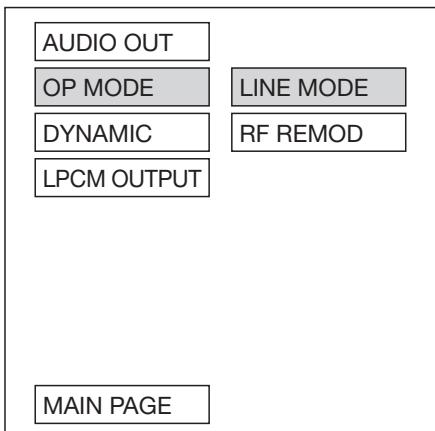
--- AUDIO SETUP ---



AUDIO OUT

This is to activate the audio output from ANALOG mode to SPDIF/RAW mode to SPDIF/PCM mode.

--- AUDIO SETUP ---

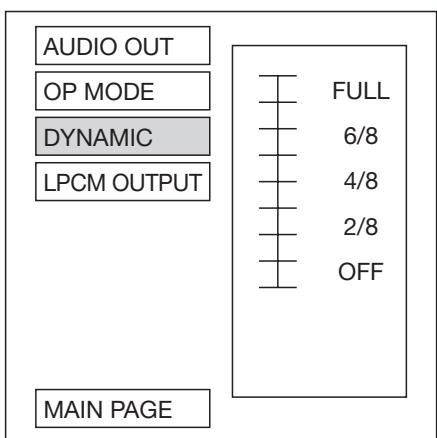


OP MODE

There are two operating modes for the Dolby Digital decoder: LINE OUT and RF REMOD.

SETUP

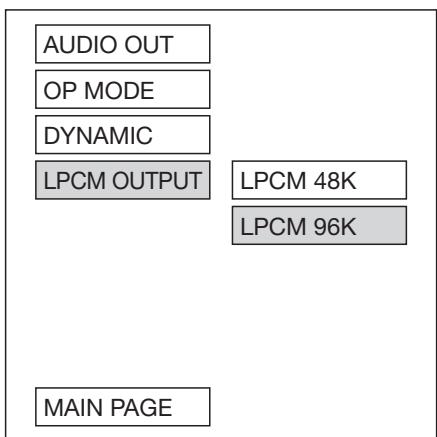
--- AUDIO SETUP ---



Dynamic Range Control

Select DRC and adjust the dynamic range of a Dolby Digital encoded program. There are 8 steps between full compression and compression off.

--- AUDIO SETUP ---

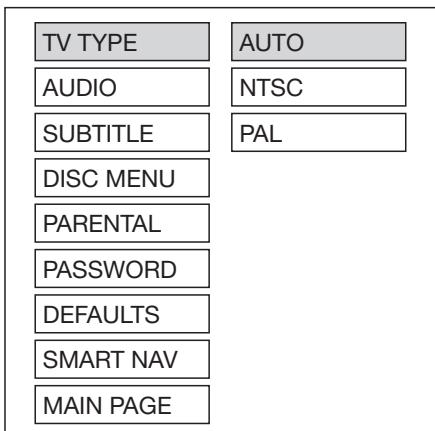


LPCM OUTPUT

Select the LPCM OUTPUT between LPCM 48K and LPCM 96K.

PREFERENCES SETUP

--- PREFERENCES PAGE ---



TV type setup

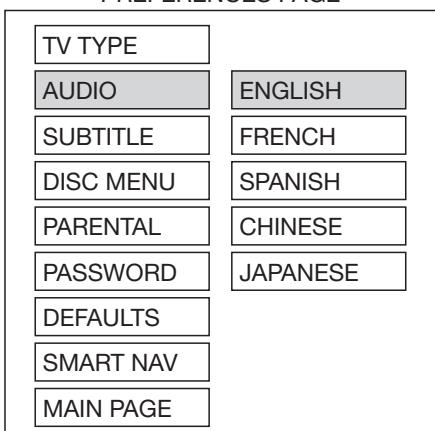
This player can play discs recorded in either PAL or NTSC format.

Select NTSC format, when you connected to NTSC TV.

Select PAL format, when you connected to PAL TV.

Select MULTI format, the player TV output format will according to the DVD disc format.

--- PREFERENCES PAGE ---



AUDIO language setup

Select the preferred AUDIO soundtrack by using the cursor buttons.

SETUP

--- PREFERENCES PAGE ---

TV TYPE	
AUDIO	
SUBTITLE	ENGLISH
DISC MENU	FRENCH
PARENTAL	SPANISH
PASSWORD	CHINESE
DEFAULTS	JAPANESE
SMART NAV	
MAIN PAGE	

--- PREFERENCES PAGE ---

TV TYPE	1 G
AUDIO	2
SUBTITLE	3 PG
DISC MENU	4 PG 13
PARENTAL	5
PASSWORD	6 PG-R
DEFAULTS	7 NC-17
SMART NAV	8 ADULT
MAIN PAGE	NO PARENTAL

SUBTITLE language setup

Select the preferred SUBTITLE language by using the cursor buttons.

--- PREFERENCES PAGE ---

TV TYPE	
AUDIO	
SUBTITLE	ENGLISH
DISC MENU	FRENCH
PARENTAL	SPANISH
PASSWORD	CHINESE
DEFAULTS	JAPANESE
SMART NAV	
MAIN PAGE	

PARENTAL Controls

Select desired parental guidance using the cursor buttons and confirm by pressing ENTER.

--- PREFERENCES PAGE ---

TV TYPE	
AUDIO	
SUBTITLE	
DISC MENU	
PARENTAL	
PASSWORD	CHANGE
DEFAULTS	
SMART NAV	
MAIN PAGE	

DISC MENU language setup

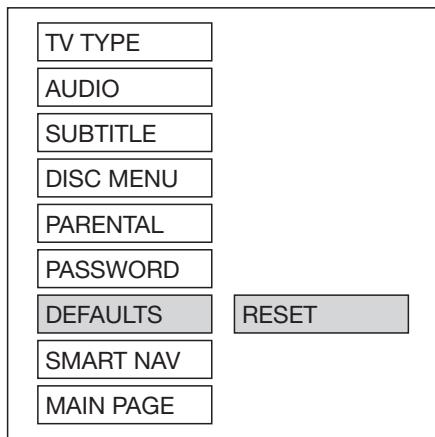
Select the preferred DISC MENU language by using the cursor buttons.

PASSWORD

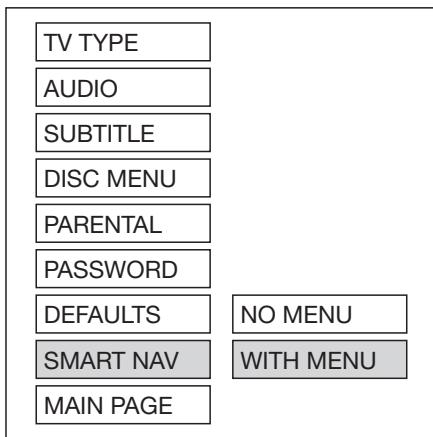
Select change and press ENTER button. Type the old password (The initial factory code is 3308) and key in a new four character password of your choice. Type in this password again to confirm.

SETUP

--- PREFERENCES PAGE ---



--- PREFERENCES PAGE ---



DEFAULTS

Press the RESET button to return to the initial factory settings.

SMART NAV

In this item, you can select NO MENU mode or WITH MENU mode.

DEFAULTS TABLE

General Setup	TV Display	Normal/PS
	PIC Mode	AUTO
	Angle Mark	ON
	OSD Language	English
	Captions	OFF
	SCR Saver	OFF
Speaker Setup	Downmix	Stereo
Audio Setup	Audio Out	Analog
	OP Mode	Line Out
	Dynamic	
	LPCM Output	LPCM 96K
Preferences	TV Type	AUTO
	Audio	English
	Subtitle	English
	DISC Menu	English
	Parental	6 PG-R
	Password	3308
	Smart NAV	With Menu

SPECIFICATIONS

Supply Voltage	:	12V DC (11V-15V), test voltage 14.4V, negative ground
Chassis Dimensions	:	160 (W) x 156 (D) x 51 (H) mm 6.3" x 6.14" x 2"
Weight	:	1.1 kg 2.2 lb
Current Consumption	:	Less than 2A
Signal System	:	Composite video 1.0Vp-p 75Ω
Discs Played	:	(1) DVD-VIDEO Disc 5" (12 cm) single-sided, single-layer 5" (12 cm) single-sided, double-layer (2) Compact Disc (CD-DA, VIDEO CD) 5" (12cm) disc
Audio Output Level	:	600Ω (2 ch 2.0 Vrms)
Audio Signal Output Characteristics	:	(1) Frequency Response 20 Hz - 20 KHz (2) S/N Ratio 90 dB (JIS) (3) Wow and Flutter Below measurable limits

Note:

Specifications and design are subject to modification, without notice, due to improvements in technology.



BOSS® AUDIO SYSTEMS

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